

GenCore version 5.1.6
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OW protein - protein search, using sw model

Run on: August 22, 2003, 15:06:22 ; Search time 58 Seconds
(without alignments)
796.321 Million cell updates/sec

Title: US-09-745-506-37

Perfect score: 1799
Sequence: 1 MDKRLSLSLNDFASLSPAE.....LEKNITILSLDRDPIQVY 350

Scoring table:

BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 497079 seqs, 131961718 residues

Total number of hits satisfying chosen parameters: 497079

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Published Applications -AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
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- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
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- 14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|----|---------------------|
| 1 | 366 | 20.3 | 68 | 9 | US-09-864-761-43200 |
| 2 | 230 | 12.8 | 380 | 10 | US-09-736-969A-93 |
| 3 | 218.5 | 12.1 | 287 | 15 | US-10-156-761-13402 |
| 4 | 109.5 | 6.1 | 316 | 8 | US-08-808-031A-45 |
| 5 | 101 | 5.6 | 673 | 15 | US-10-005-956-2 |
| 6 | 101 | 5.6 | 673 | 15 | US-10-005-956-4 |
| 7 | 101 | 5.6 | 673 | 15 | US-10-005-956-847 |
| 8 | 101 | 5.6 | 673 | 15 | US-10-005-956-857 |
| 9 | 97 | 5.4 | 488 | 9 | US-09-815-242-11444 |
| 10 | 96.5 | 5.4 | 493 | 14 | US-10-002-593-10 |
| 11 | 96.5 | 5.4 | 709 | 15 | US-10-164-163-24 |
| 12 | 92 | 5.1 | 1052 | 15 | US-10-156-761-8383 |
| 13 | 91.5 | 5.1 | 815 | 15 | US-10-246-354-3 |
| 14 | 91 | 5.1 | 1032 | 11 | US-09-954-987B-6 |
| 15 | 91 | 5.1 | 1032 | 12 | US-10-272-502A-7 |

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| 16 | 90.5 | 5.0 | 2090 | 9 | US-09-736-969A-93 |
| 17 | 90.5 | 5.0 | 2090 | 10 | US-09-736-969A-90 |
| 18 | 90.5 | 5.0 | 2090 | 10 | US-09-736-969A-107 |
| 19 | 90.5 | 5.0 | 2090 | 11 | US-09-978-244A-28 |
| 20 | 90.5 | 5.0 | 3352 | 15 | US-10-156-761-7961 |
| 21 | 89 | 4.9 | 525 | 10 | US-09-814-550-2 |
| 22 | 87.5 | 4.9 | 389 | 12 | US-10-205-219-165 |
| 23 | 87.5 | 4.9 | 800 | 9 | US-09-815-242-5349 |
| 24 | 87.5 | 4.9 | 800 | 9 | US-09-815-242-12139 |
| 25 | 87.5 | 4.9 | 800 | 9 | US-09-815-242-13136 |
| 26 | 87.5 | 4.9 | 917 | 9 | US-09-815-242-5603 |
| 27 | 87.5 | 4.9 | 920 | 9 | US-09-815-242-12181 |
| 28 | 87.5 | 4.9 | 920 | 9 | US-09-815-242-12995 |
| 29 | 87.5 | 4.9 | 920 | 9 | US-09-815-242-13148 |
| 30 | 86.5 | 4.8 | 389 | 15 | US-10-128-714-3369 |
| 31 | 86.5 | 4.8 | 1073 | 9 | US-09-815-242-12361 |
| 32 | 86.5 | 4.8 | 1147 | 9 | US-09-815-242-5468 |
| 33 | 86 | 4.8 | 729 | 12 | US-10-301-997-30 |
| 34 | 86 | 4.8 | 975 | 11 | US-09-842-758-33 |
| 35 | 86 | 4.8 | 1014 | 11 | US-09-842-758-32 |
| 36 | 86 | 4.8 | 1014 | 11 | US-09-842-758-31 |
| 37 | 86 | 4.8 | 1032 | 11 | US-09-842-758-31 |
| 38 | 86 | 4.8 | 1032 | 12 | US-10-199-672-552 |
| 39 | 86 | 4.8 | 1032 | 12 | US-10-187-749-552 |
| 40 | 86 | 4.8 | 1032 | 12 | US-10-194-457-552 |
| 41 | 86 | 4.8 | 1032 | 14 | US-10-052-586-552 |
| 42 | 86 | 4.8 | 1032 | 15 | US-10-174-590-552 |
| 43 | 86 | 4.8 | 1032 | 15 | US-10-176-758-552 |
| 44 | 86 | 4.8 | 1032 | 15 | US-10-175-737-552 |
| 45 | 86 | 4.8 | 1032 | 15 | US-10-173-706-552 |

ALIGNMENTS

RESULT 1
US-09-864-761-43200
Sequence 43200, Application US/09864761
Patent No. US20020048763A1
GENERAL INFORMATION:
APPLICANT: Penn, Sharon G.
APPLICANT: Rank, David R.
APPLICANT: Hanzel, David K.
APPLICANT: Chen, Wensheng
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
FILE REFERENCE: Acomlca-X-1
CURRENT FILING DATE: 2001-05-23
CURRENT FILING DATE: 2001-05-23
PRIOR APPLICATION NUMBER: US 60/180,312
PRIOR FILING DATE: 2000-02-04
PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: US 09/632,366
PRIOR FILING DATE: 2000-08-03
PRIOR APPLICATION NUMBER: GB 24263.6
PRIOR FILING DATE: 2000-10-04
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00665
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00668
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00663
PRIOR FILING DATE: 2001-01-30

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;; PRIOR APPLICATION NUMBER: PCT/US01/00662
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00661
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00670
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: US 60/234,687
;; PRIOR FILING DATE: 2000-09-21
;; PRIOR APPLICATION NUMBER: US 09/608,408
;; PRIOR FILING DATE: 2000-06-30
;; PRIOR APPLICATION NUMBER: US 09/774,203
;; PRIOR FILING DATE: 2001-01-29
;; NUMBER OF SEQ ID NOS: 49117
;; SOFTWARE: Annonax Sequence Listing Engine vers. 1.1
;; SEQ ID NO 43200
;; LENGTH: 68
;; TYPE: PRT
;; ORGANISM: Homo sapiens
;; FEATURE:
;; OTHER INFORMATION: MAP TO AC005037.2
;; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 0.69
;; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.1
;; OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 1.4
;; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 1.7
;; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 0.89
;; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1
;; OTHER INFORMATION: EST_HUMAN HIT: BE275324.1, EVALUATE 4.00e-35
;; OTHER INFORMATION: SWISSPROT HIT: P54472, EVALUATE 1.00e-10
US-09-864-761-43200

Query Match      20.3%; Score 366; DB 9; Length 68;
Best Local Similarity 100.0%; Pred. No. 5.5e-30;
Matches 68; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 51 MEEVLQKKADLLSHPPFRPMKRITWNTWKEKRLVIRALENRVGISPHAYDAPOGV 110
DB 1 MEEVLQKKADLLSHPPFRPMKRITWNTWKEKRLVIRALENRVGISPHAYDAPOGV 60
QY 111 NNMLAKGL 118
DB 61 NNMLAKGL 68

RESULT 2
US-09-738-626-5952
;; Sequence 5952, Application US/09738626
;; Publication No. US20020197605A1
;; GENERAL INFORMATION:
;; APPLICANT: NAKAGAWA, SATOSHI
;; APPLICANT: MIZOGUCHI, HIROSHI
;; APPLICANT: ANDO, SEIKO
;; APPLICANT: HAYASHI, MIKIRO
;; APPLICANT: OCHIAI, KEIKO
;; APPLICANT: YOKOI, HARUHIKO
;; APPLICANT: TATEISHI, NAOKO
;; APPLICANT: SENOH, AKIHIRO
;; APPLICANT: IKEDA, MASATO
;; APPLICANT: OKAZAKI, AKIO
;; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
;; FILE REFERENCE: 249-125
;; CURRENT APPLICATION NUMBER: US/09/738,626
;; PRIOR FILING DATE: 2000-12-18
;; PRIOR APPLICATION NUMBER: JP 99/377484
;; PRIOR FILING DATE: 1999-12-16
;; PRIOR APPLICATION NUMBER: JP 00/159162
;; PRIOR FILING DATE: 2000-04-07
;; PRIOR APPLICATION NUMBER: JP 00/280988
;; PRIOR FILING DATE: 2000-08-03
;; NUMBER OF SEQ ID NOS: 7059
;; SOFTWARE: PatentIn ver. 3.0
;; SEQ ID NO 5952
;; LENGTH: 380
;; TYPE: PRT
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;; ORGANISM: Corynebacterium glutamicum
US-09-738-626-5952

Query Match      12.8%; Score 230; DB 10; Length 380;
Best Local Similarity 24.5%; Pred. No. 6.8e-15;
Matches 89; Conservative 72; Mismatches 154; Indels 48; Gaps 13;

QY 17 SPAESWDNVGLVEPSPPHYVNTFLTNDLVEEVEVLQKKADLLSHPPFRPMKRI 76
DB 20 ALAESWDNVGLTIC-GDPTESVKGVLADCTQAVDAKAVDMGLDMLIIHHBLLRGVTSV 78
QY 77 TWNTWKEKRLVIRALENRVGISPHAYDAPOGVNNMLAKGLGACTSPRIPSKAPNPT 136
DB 79 AADEPKGVHITLLINGVALFSAHNTNADSRARPGVNDKLAELVGTAGPILTRLLGMDK 138
QY 137 EGNHREFFNVNTQDL--DKVSAVKG-----IDGVS-----YTSFSAQTNEBOTRIN 183
DB 139 MGVHLPKDAVYVKMLMDAGAGALGDRECAFELEGVGQRPVGCANPAGSDVDK----- 194
QY 184 LNCYOKALMOYVDFLSRNKKOLYKTEIL---SLEKPLL---LH-----TGMRLC 227
DB 195 --LFSKLELIEFVAPRNLPARLTSVLRHAHPYEPFADIVEMHSASLENAATGLGHVG 251
QY 228 TLDESVSATMIDRIKRLKLSHRLALGVGRT--LESQVYVYALCAGSSSVLQGV--- 282
DB 252 ELPEPMRLADPVQOAVNNLPYTE---WGVRAATGDEPMVSRVAASSGSGSFLNDVYIKL 307
QY 283 EADLYTGEMSHHDTLDAASQ-GINVIICEHSNTERGFLSDLRML-DSHLENKINILLS 340
DB 308 GVDVYVTSDLRHHRPVDELREGGRAVIDTAHMASFFPTSQAOELDQKAPQVEVDVSI 367
QY 341 ETD 343
DB 368 RTD 370

RESULT 3
US-10-156-761-13402
;; Sequence 13402, Application US/10156761
;; Publication No. US20030119018A1
;; GENERAL INFORMATION:
;; APPLICANT: OMURA, SATOSHI
;; APPLICANT: IKEDA, HARUO
;; APPLICANT: ISHIKAWA, JUN
;; APPLICANT: HORIKAWA, HIROSHI
;; APPLICANT: SHIBA, TADAYOSHI
;; APPLICANT: SAKAKI, YOSHIYUKI
;; APPLICANT: HATTORI, MASAHIRA
;; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
;; FILE REFERENCE: 249-262
;; CURRENT APPLICATION NUMBER: US/10/156,761
;; PRIOR FILING DATE: 2002-05-29
;; PRIOR APPLICATION NUMBER: JP 2001-204089
;; PRIOR FILING DATE: 2001-05-30
;; PRIOR APPLICATION NUMBER: JP 2001-272697
;; PRIOR FILING DATE: 2001-08-02
;; NUMBER OF SEQ ID NOS: 15109
;; SEQ ID NO 13402
;; LENGTH: 287
;; TYPE: PRT
;; ORGANISM: Streptomyces avermitilis
US-10-156-761-13402

Query Match      12.1%; Score 218.5; DB 15; Length 287;
Best Local Similarity 21.9%; Pred. No. 6.7e-14;
Matches 79; Conservative 46; Mismatches 125; Indels 11; Gaps 8;

QY 3 LKALLSSINDFASISFAESWDNVGLVEPSPPHYVNTFLTNDLVEEVEVLQKKADLI 62
DB 4 LSEVIAALENLMPAEWESMDVAGTVGDDPQEVARVAFV-DEVRLETIDBAVHLGADLI 62
QY 63 LSHPPFRPMKRITWNTWKEKRLVIRALENRVGISPHAYDAPOGVNNMLAKGLGACT 122
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Db 63 VTHHPLYLNGTITVAASFEGRAVHTLLKNDIALHVAHTNADRADPGVSDALGALDLN 122
QY 123 SRPIHPSKAPNPTESNNHVEFNVTQDLKVMASVKIDGVSVTSFSAKNGNEQTRI 182
Db 123 VPPVLPD--PGDP-----DG-----135
QY 183 NUNCTOKALMOVVFLSRNKOLYKTEILSLEKPLLLHTGMRCTGLDESVSATMIDRI 242
Db 136 -----RGLGRVCLADHPVTVREPAARA 158
QY 243 KRLKLSHRLALGVGRTLESQVKAALCAGSGSVLAGVEA---DLYLTGEMSHHD-- 297
Db 159 AARLPAT--AGGIRVAGDEALVRYVAVSGSGDSLFDVYRAAGVDAFLNDRHHHASE 216
QY 298 -----LDAASOGINVLCEHSNTERGFLSDLRMDLSHLENKINITLSETRD 345
Db 217 FMAADRAHSPALLDAAHMATEMPWCBLAAOLDEISDRHGW-----DLRVHVSXTVVD 269
QY 346 P 346
Db 270 P 270

RESULT 4
US-08-808-031A-45
; Sequence 45, Application US/08808031A
; Publication No. US20020048802A1

GENERAL INFORMATION:
APPLICANT: Inouye, Sumiko
APPLICANT: Hsu, Mei-Yin
APPLICANT: Eagle, Susan
APPLICANT: Inouye, Masayori
TITLE OF INVENTION: PROKARYOTIC REVERSE TRANSCRIPTASE
NUMBER OF SEQUENCES: 52
CORRESPONDENCE ADDRESS:
ADDRESSEE: WEISER & ASSOCIATES
STREET: 230 South Fifteenth Street, Suite 500
CITY: Philadelphia
STATE: PA
COUNTRY: USA
ZIP: 19102
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/808,031A
FILING DATE: 03-MAR-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Weiser, Gerard J.
REGISTRATION NUMBER: 19,763
REFERENCE/DOCKET NUMBER: 377(913).5888P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-875-8383
TELEFAX: 215-875-8394
INFORMATION FOR SEQ ID NO: 45:
SEQUENCE CHARACTERISTICS:
LENGTH: 316 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-808-031A-45

Query Match 6.1%; Score 109.5; DB 8; Length 316;
Best local Similarity 21.5%; Pred. No. 0.012;
Matches 74; Conservative 50; Mismatches 113; Indels 107; Gaps 18;
QY 42 LTFNDLLEWVE-----EVLQKADLLISTHPPFRPKRITMTWKIRLVIRALENR 93
Db 13 MKRGASEVMRSPPEPKWDIAKKKGMRTIYHP-----SSKVKLLIQYMLMN 60

QY 94 VGISPHTAVDAPQGVNMMLAGLCACTSRPIHPSKAPY-----P-----135
Db 61 V--FSKLPMMNNAAYAAVKKNSIK-----SNALLHAESKKRYVKIDLKDFEPIKTFDEE 113
QY 136 ----TEGNHREVFNVNTQDLKVMASVKIDGV-----VTSFSAKNGNEQ 179
Db 114 YAFTRRDRIEFETTERDEKEL---LQIKTICFISDSTLPIGFTSPLIANFVAREIDEK- 169
QY 180 TRINLCTOKALMOVVFLSRNKOLYKTEILSLEKPLLLHTGMRCTGLDESVSATMTI 229
Db 170 -----LTKR--LNAIDKLNAATRYADDIYSTNM-----KCASKL-----1L 205
QY 240 DRIKRLKLSHRLALGVGRTLESQVKAALCAGSGSSVLAGVEA--DLYLTGEMSHHD 296
Db 206 DCFRRKTK-----EIGDFKINIKKFKICASGSIYGLKCHDHPHITLHRSMD 257
QY 297 T----LDAASOGINVLCEHSNTERGFLSDLRMDLSHENKIN 336
Db 258 KIRLHLSTLSKGT--LKDEDHNLKSGIYAVAKD-IDPHFYTKLN 298

RESULT 5
US-10-005-956-2
; Sequence 2, Application US/10005956
; Publication No. US20030113726A1

GENERAL INFORMATION:
APPLICANT: Bristol-Myers Squibb Company
TITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS
FILE REFERENCE: D0053NP
CURRENT APPLICATION NUMBER: US/10/005,956
CURRENT FILING DATE: 2001-12-03
PRIOR APPLICATION NUMBER: 60/251,015
PRIOR FILING DATE: 2000-12-04
PRIOR APPLICATION NUMBER: 60/263,678
PRIOR FILING DATE: 2001-01-23
PRIOR APPLICATION NUMBER: 60/273,037
PRIOR FILING DATE: 2001-03-02
NUMBER OF SEQ ID NOS: 1579
SOFTWARE: Patentin version 3.0
SEQ ID NO 2
LENGTH: 673
TYPE: PRT
ORGANISM: homo sapiens
US-10-005-956-2

Query Match 5.6%; Score 101; DB 15; Length 673;
Best local Similarity 19.9%; Pred. No. 0.28;
Matches 70; Conservative 55; Mismatches 121; Indels 106; Gaps 16;

QY 20 ESDNNGGLVPEPSPHTVNTLFLNDLTEVMEVLOKADLLI-SYHP-----PIPRPM 73
Db 164 DTWESYDLALQGSNROLVS--ITTNL-----VDLWGSERPPVPOPIYALQ 208
QY 74 KRTIWNWKERLYIRALENVGIVSPHTAYDAAPGY-----NNMLAKGLCACTSRPI 136
Db 209 EAFGTGWQEKV-----SGVRSQMQKQKQPTAVLLSALBERTAFLFN-----L 251
QY 127 HPSKAPNPTESNNHVEFNVTQDLKVMASVKIDGVSVTSFSAKNGNEQTRI 186
Db 252 RASDIPYNP-----FFYSTYLLND-----SSIRLFAFKNSRFSSETLSYLSSC 294
QY 187 TOKALMOVVDF-----LSRNKOLYKTEILSLEKPLLLHTGMRCT 228
Db 295 TGPWCVOIEDIYSOVRDIOAISLADNVIWIGTSTYTMGITEMIPREK-----L 342
QY 229 LDESVSATMIDRIKRR-----LKLSHIRLALGVR--TLSEQVKAALCAGSGSVLQ 280
Db 343 VDTIYSPVMMTKAVKNSKEQALAKASHVRDAVAVIRVLVLEKNVPGVDEPFGAETVD 402
QY 281 GVEADLYLGEVMSHHDTLDAASOGINVLCEHSNTE---RGLSOLRMDLSD 329
Db 403 KFRGEQFSSGPGS-FETISAS--GLNMAALAHYSPTELNKLKSSDEMYLLDS 451

RESULT 6
US-10-005-956-4
; Sequence 4, Application US/10005956
; Publication No. US20030113726A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS
; FILE REFERENCE: D0053NP
; CURRENT APPLICATION NUMBER: US/10/005,956
; CURRENT FILING DATE: 2001-12-03
; PRIOR APPLICATION NUMBER: 60/251,015
; PRIOR FILING DATE: 2000-12-04
; PRIOR APPLICATION NUMBER: 60/263,678
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: 60/273,037
; PRIOR FILING DATE: 2001-03-02
; NUMBER OF SEQ ID NOS: 1579
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 4
; LENGTH: 673
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-005-956-4

Query Match
Best Local Similarity 19.9%; Pred. No. 0.28;
Matches 70; Conservative 55; Mismatches 121; Indels 106; Gaps 16;

QY 20 ESMQNVGLVEPSPPHVTNLTFLNDLVEVMEVLOKKADLL-SYHP-----PIFRPM 73
DB 164 DTWESYDALOGSNROLVS---ITTNL-----VDLVGSERPVPNPQIYALQ 208
QY 74 KRITWNTKERYLVRALENRGVYSPHTAYDAPOGV-----NNMLAKGLACTSRPI 126
DB 209 EAFGTSTQOEKV-----SGVRSQOMKHOKVPAVLLSLEETAWLFN-----L 251
QY 127 HPSKAPNPTBGNHREVNVTYDLDKVSAGIDGVSPTSFGTNEQTRINLC 186
DB 252 RASDIPYNP-----FFYSYTLTLD-----SSIRLFANKSRFSSETLSYLNSSC 294
QY 187 TOKALMQVDF-----LSRNQLYOKTELLSLEKPLLLHTGMRCT 228
DB 295 TGPWCVOLEDYSQVRDSIQAVSLGDVRITGTSYTMGIYEMIPREK-----L 342
QY 229 LDESYSLATMIDRIKRH-----LKLSHIRLALGVGR---TLESQYKVALCAGSGSSVLO 280
DB 343 VTDYSPVMNTKAVKANSKEQALLKASHVRDAVAIRLYLWLEKNVPKGTVDSEFGAETVD 402
QY 281 GVEADLYLTGEMSHHDTLDAASOGINVLCEHSNTE---RGFLSDLRMDLS 329
DB 403 KFRGEOPSSGSPS-FETISAS--GLNALAHYSPTKELNRKLSDEMYLLDS 451

RESULT 7
US-10-005-956-847
; Sequence 847, Application US/10005956
; Publication No. US20030113726A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS
; FILE REFERENCE: D0053NP
; CURRENT APPLICATION NUMBER: US/10/005,956
; CURRENT FILING DATE: 2001-12-03
; PRIOR APPLICATION NUMBER: 60/251,015
; PRIOR FILING DATE: 2000-12-04
; PRIOR APPLICATION NUMBER: 60/263,678
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: 60/273,037
; PRIOR FILING DATE: 2001-03-02
; NUMBER OF SEQ ID NOS: 1579
; SOFTWARE: PatentIn version 3.0

; SEQ ID NO 847
; LENGTH: 673
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-005-956-847

Query Match
Best Local Similarity 19.9%; Pred. No. 0.28;
Matches 70; Conservative 55; Mismatches 121; Indels 106; Gaps 16;

QY 20 ESMQNVGLVEPSPPHVTNLTFLNDLVEVMEVLOKKADLL-SYHP-----PIFRPM 73
DB 164 DTWESYDALOGSNROLVS---ITTNL-----VDLVGSERPVPNPQIYALQ 208
QY 74 KRITWNTKERYLVRALENRGVYSPHTAYDAPOGV-----NNMLAKGLACTSRPI 126
DB 209 EAFGTSTQOEKV-----SGVRSQOMKHOKVPAVLLSLEETAWLFN-----L 251
QY 127 HPSKAPNPTBGNHREVNVTYDLDKVSAGIDGVSPTSFGTNEQTRINLC 186
DB 252 RASDIPYNP-----FFYSYTLTLD-----SSIRLFANKSRFSSETLSYLNSSC 294
QY 187 TOKALMQVDF-----LSRNQLYOKTELLSLEKPLLLHTGMRCT 228
DB 295 TGPWCVOLEDYSQVRDSIQAVSLGDVRITGTSYTMGIYEMIPREK-----L 342
QY 229 LDESYSLATMIDRIKRH-----LKLSHIRLALGVGR---TLESQYKVALCAGSGSSVLO 280
DB 343 VTDYSPVMNTKAVKANSKEQALLKASHVRDAVAIRLYLWLEKNVPKGTVDSEFGAETVD 402
QY 281 GVEADLYLTGEMSHHDTLDAASOGINVLCEHSNTE---RGFLSDLRMDLS 329
DB 403 KFRGEOPSSGSPS-FETISAS--GLNALAHYSPTKELNRKLSDEMYLLDS 451

RESULT 8
US-10-005-956-857
; Sequence 857, Application US/10005956
; Publication No. US20030113726A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS
; FILE REFERENCE: D0053NP
; CURRENT APPLICATION NUMBER: US/10/005,956
; CURRENT FILING DATE: 2001-12-03
; PRIOR APPLICATION NUMBER: 60/251,015
; PRIOR FILING DATE: 2000-12-04
; PRIOR APPLICATION NUMBER: 60/263,678
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: 60/273,037
; PRIOR FILING DATE: 2001-03-02
; NUMBER OF SEQ ID NOS: 1579
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 857
; LENGTH: 673
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-005-956-857

Query Match
Best Local Similarity 19.9%; Pred. No. 0.28;
Matches 70; Conservative 55; Mismatches 121; Indels 106; Gaps 16;

QY 20 ESMQNVGLVEPSPPHVTNLTFLNDLVEVMEVLOKKADLL-SYHP-----PIFRPM 73
DB 164 DTWESYDALOGSNROLVS---ITTNL-----VDLVGSERPVPNPQIYALQ 208
QY 74 KRITWNTKERYLVRALENRGVYSPHTAYDAPOGV-----NNMLAKGLACTSRPI 126
DB 209 EAFGTSTQOEKV-----SGVRSQOMKHOKVPAVLLSLEETAWLFN-----L 251
QY 127 HPSKAPNPTBGNHREVNVTYDLDKVSAGIDGVSPTSFGTNEQTRINLC 186

Db 252 RASDIPYNP-----FFYSYTLTD-----SSIRLFANKSRFSSETLSYLNSSC 294
Qy 187 TOKALQOVDF-----LSRNKOLYQKTEIISLEKPLILHTGMGLCT 228
Db 295 TGMCMQIEDIYSVBRDIOAYSLGADVIRIMIGTYTMGIYEMTPRER-----L 342
Qy 229 LDESVALTMIDRIKRR-----LKLSHIRLALGVGR-----TLESQVKKVALJAGSGSSVLQ 280
Db 343 VEDTYSPVMWTKAVKNSKEQALAKASHVDAVAVIRLWLEKNVPRKGTVDERSGAETVD 402
Qy 281 GVAADILYLTGEMSHHDTLDAASOGINVIICEHSNTE-----RGFLSDLRMDIDS 329
Db 403 KERGEQFSSGPS-FETISAS--GLNALAHYSPTRKLNRLSSDEMYLLDS 451

RESULT 9

US-09-815-242-11444
; Sequence 11444, Application US/09815242
; Patent No. US20020061569A1
; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlson, Karl L.
; APPLICANT: Zyskind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
; APPLICANT: Cair, Grant J.
; APPLICANT: Yamamoto, Robert T.
; APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in
; FILE OF INVENTION: Prokaryotes
; FILE REFERENCE: ELITRA.011A
; CURRENT APPLICATION NUMBER: US/09/815,242
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 14110
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11444
; LENGTH: 488
; TYPE: PRF
; ORGANISM: Helicobacter pylori
US-09-815-242-11444

Query Match 5.4%; Score 97; DB 9; Length 488;
Best Local Similarity 20.9%; Pred. No. 0.44;
Matches 78; Conservative 53; Mismatches 129; Indels 114; Gaps 17;

Qy 12 DRASLSFASMDNVGLIVPPSPHYV-NTLF-ITNDLTEVMEVLOKRAADLLSYHPT 69
Db 81 DLVAIFPAAPIDINIEAYVEIKKASIKRLEGLANTIRQALESA-QKSSDLGAVEREV 139
Qy 70 -----FRPMR-----ITNNTWKRRLVIRALENRVGIYSPHTAVDAAPQV 110
Db 140 VALLNGSTIEGRNRIKEVLESAMDLTTEQRKGSLEV-----TGIPTEFVOLDNTYSGF 193
Qy 111 NNMALAGLACTSRPIHPSKAPNYPTEGNHRYEENNYTODDKVSAVAGIDGVSTSF 170
Db 194 NKGSLVITIA-----RPSMGTSLMMN-----VLSALNDRGAVAFS- 231
Qy 171 SARTGNEBOTRINLCTOKALMOVDFLSRNKOLYQKTEIISLEKPLILHTGMGLCTD 230

Db 232 -----LMSAFOALRALSDLTISNMH-----DLES-----GRLLD-D 263
Qy 231 ESVSLATMDRI-----KRLKLSHRLALGVGRITESQVKKVALCAGSSVLQ 281
Db 264 QMENLACFHLISQKLFYDYKSYVRLEQIRQL-----RKLKSOHKEGIFIDYLOQMSG 320
Qy 282 VEADLYLTGEMSHHDTLDAASOGINVI-----CEHSNTERGFLSDLR 325
Db 321 SKA-----TKENHQIAELISRELKTLARELEPIITLVOLNLSLENRDOKRPLSDIKD 374
Qy 326 MLDSSHENKINIL 339
Db 375 --SGIEQDADIVL 386

RESULT 10

US-10-002-593-10
; Sequence 10, Application US/10002593
; Publication No. US20020137120A1
; GENERAL INFORMATION:
; APPLICANT: Vanderbilt University
; APPLICANT: Brown, Nancy J.
; TITLE OF INVENTION: BIOLOGICAL MARKERS AND DIAGNOSTIC TESTS FOR ANGIOTENSIN CONVER
; FILE REFERENCE: INHIBITOR AND VASOPRESSINASE INHIBITOR ASSOCIATED ANGIOEDEMA
; CURRENT APPLICATION NUMBER: US/10/002,593
; CURRENT FILING DATE: 2001-10-31
; PRIOR APPLICATION NUMBER: 60/244,524
; PRIOR FILING DATE: 2000-10-31
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 10
; LENGTH: 493
; TYPE: PRF
; ORGANISM: Homo sapiens
US-10-002-593-10

Query Match 5.4%; Score 96.5; DB 14; Length 493;
Best Local Similarity 20.1%; Pred. No. 0.5; Length 493;
Matches 60; Conservative 45; Mismatches 108; Indels 85; Gaps 12;

Qy 68 PIRPMPKRTWNTWKRRLVIRALENRVGIYSPHTAVDAAPQV-----NNMLANGIGA 120
Db 23 PIVLQEAFTGTSWQEV-----SGVRSQHQKQVPTAVLLSLETFAMLEN---- 70
Qy 121 CTSRPIHPSKAPNYPTEGNHRYEENNYTODDKVSAVAGIDGVSTSFSGTSGNEOT 180
Db 71 -----LRASDIPYNP-----FFYSYTLTD-----SSIRLFANKSRFSSETLS 108
Qy 181 RIMLCTOKALMOVDF-----LSRNKOLYQKTEIISLEKPLILHTG 222
Db 109 YLMSCTGPMQVIEDISQVBRDIOAYSLGADVIRIMIGTYTMGIYEMTPRER----- 161
Qy 223 MGRILCTDESVALTMIDRIKRR-----LKLSHIRLALGVGR-----TLESQVKKVALCAGS 274
Db 162 -----LVTDIYSPVMWTKAVKNSKEQALAKASHVDAVAVIRLWLEKNVPRKGTVDERS 216
Qy 275 GSSVLOVGEADLYLTGEMSHHDTLDAASOGINVIICEHSNTE-----RGFLSDLRMDIDS 329
Db 217 GAEIVDKFRGEQFSSGPS-FETISAS--GLNALAHYSPTRKLNRLSSDEMYLLDS 271

RESULT 11
US-10-164-163-24
; Sequence 24, Application US/10164163
; Publication No. US20030073812A1
; GENERAL INFORMATION:
; APPLICANT: Colucci, Gabriella
; TITLE OF INVENTION: NO. US20030073812A1-Endogenous Constitutively Activated Versio
; FILE REFERENCE: AREN-0383
; CURRENT APPLICATION NUMBER: US/10/164,163
; CURRENT FILING DATE: 2002-06-05

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1 PRIOR APPLICATION NUMBER: 60/372,131
2 PRIOR FILING DATE: 2002-04-12
3 PRIOR APPLICATION NUMBER: 60/339,281
4 PRIOR FILING DATE: 2001-12-11
5 PRIOR APPLICATION NUMBER: 60/330,363
6 PRIOR FILING DATE: 2001-10-18
7 PRIOR APPLICATION NUMBER: 60/308,267
8 PRIOR FILING DATE: 2001-07-26
9 PRIOR APPLICATION NUMBER: 60/225,948
10 PRIOR FILING DATE: 2001-06-05
11 NUMBER OF SEQ ID NOS: 30
12 SOFTWARE: PatentIn version 3.1
13 SEQ ID NO 24
14 LENGTH: 709
15 TYPE: prt
16 ORGANISM: Artificial Sequence
17 FEATURE:
18 OTHER INFORMATION: Synthetic Construct
19 US-10-164-163-24

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| | | | | |
|--------------------------|--------|-----------------|------------|-------------|
| Query Match | 5.4%; | Score 96.5; | DB 15; | Length 709; |
| Best Local Similarity | 22.4%; | Pred. No. 0.87; | | |
| Matches 70; Conservative | 53; | Mismatches 135; | Indels 55; | Gaps 13; |

[illegible]

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RESULT 12
US-10-156-761-8383
Sequence 8383, Application US/10156761
Publication No. US20030119018A1
GENERAL INFORMATION:
APPLICANT: OMURA, SATOSHI
APPLICANT: IKEDA, HARUO
APPLICANT: ISHIKAWA, JUN
APPLICANT: HORIKAWA, HIROSHI
APPLICANT: SHIBA, TADAYOSHI
APPLICANT: SAKAKI, YOSHITOKU
APPLICANT: HATTORI, MASAHIRA
TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
FILE REFERENCE: 249-262
CURRENT FILING DATE: 2002-05-29
CURRENT APPLICATION NUMBER: US/10/156,761
PRIOR APPLICATION NUMBER: JP 2001-204089
PRIOR FILING DATE: 2001-05-30
PRIOR APPLICATION NUMBER: JP 2001-272697
PRIOR FILING DATE: 2001-08-02
NUMBER OF SEQ ID NOS: 15109
SEQ ID NO 8383
LENGTH: 1052
TYPE: PRT

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ORGANISM: Streptomyces avermitilis
US-10-156-761-8383

| | | | | |
|-----------------------|--------|----------------|--------|-----------------|
| Query Match | 5.1%; | Score 92; | DB 15; | Length 1052; |
| Best Local Similarity | 21.6%; | Pred. NO. 4.6; | | |
| Matches | 81; | Conservative | 49; | Mismatches 155; |
| | | | Indels | 90; |
| | | | Gaps | 16; |

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QY 6 LLSLNDPAISLSPAESMNOVGLIVEPSP-----HYVNTLFJNDLIEEVEEY 54
Db 432 LIAVSN-----SLAAGGTNAHVLEAPVNSGASRRRRHY-----LLASKGALDYL 482
QY 55 LQK-----KADLLISYHPPIFRPKRTITWTWKRELYIRALENRVGIYSPIH---T 101
Db 483 SOSLGQMARENPHADVAVAH-----TLAGREELPLR-----ALTAHDLDDV 526
QY 102 AYDAAPQGVNWMWL-AKGLGACTSRPIHNSKAPNITBEGNHRYEEFVNVTYODLDKMSAVK 160
Db 527 AYGSTRSRSRSQREOARGSVRTAFLFPGQGTOLRLPAMGARLAQGPVAAHNDRIYIGLFQ 586
QY 161 ---GIDGVSYSFESARTNEBOTRFTN-LNCTOKALMQVVDLFNRKQOLYQKTEILSLEKP 216
Db 567 ERAGVDLPLRLPRDASTLEEARITTLTATEYIQPALFAVEMALGRITMDY-----GVNRY 640
QY 217 LLHTGMGRLL--CTLDESVSATMMDIRIKRLKLISHIRLALGVGRTLESQVKVALCAGS 274
Db 641 AMLGHSVGEIVAAATLGVGVIDLAPAVELVARRGRL-----MSETPREGAMLYVIAEBE 692
QY 275 GSSVYQGVYADLYL-----TGESHHDDTLDAASQGINVILCESHSTNTERGFLSD 323
Db 693 AAKLLDDVPGDITLLAANADOLVVVSGAPQVEVEEL-AAKLRADGVSCGRLEVTRAFHSFL 751
QY 324 -----RDMDSH 330
Db 752 MDTAADTFERQAADSH 766

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RESULT 13
US-10-246-354-3
? Sequence 3, Application US/10246354
? Publication No. US20030104443A1
? GENERAL INFORMATION:
? APPLICANT: Flynn, Daniel C
? TITLE OF INVENTION: AFAP Sequences, Polypeptides, Antibodies and Methods
? FILE REFERENCE: 22085/2002
? CURRENT APPLICATION NUMBER: US/10/246,354
? CURRENT FILING DATE: 2002-09-18
? PRIOR APPLICATION NUMBER: 60/323,866
? PRIOR FILING DATE: 2001-09-21
? NUMBER OF SEQ ID NOS: 10
? SOFTWARE: PatentIn version 3.2
? SEQ ID NO 3
? LENGTH: 815
? TYPE: PRT
? ORGANISM: Chicken
US-10-246-354-3

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| | Query Match | Similarity | 5.1% | Score | 91.5 | DB | Length | 815; |
|-----|-------------|---|-------|------------|------|--------|--------|------|
| | Best Local | Similarity | 24.3% | Pred | No. | 3.5, | | |
| | Matches | Conservative | 29; | Mismatches | 86; | Indels | 47; | Gaps |
| | | | | | | | | 10; |
| Oy | 125 | PHPSKAPNYPTGHNHREENVNVTQDDLDKVMASVKGIDGVSVTSFSAFNGNEOGRINL | | | | | | 184 |
| | | : | | | | | : | : |
| Db | 99 | PVPSPGAPEYITS-----NY--DSDPAMSSSYSEYDE-----EEEDGGKKRRHOW | | | | | | 141 |
| Oy | 185 | NCTOKALMQVDV----FLSRNKOLYOKEEISL--ERPLLTHTG-----MGRICLTDE | | | | | | 231 |
| | | : : : : | | : | : | : | : | : |
| -Db | 142 | PEEBESMDLVDAKICALFLLRKRKRQRGTWKLVCIREKNLLCYCKSSKDQQPOMEILLINC | | | | | | 201 |
| Oy | 232 | SYSLATMIDIRKH-LKLSH-----TRLAIGVRILSQAIVV---ALCAQS----- | | | | | | 274 |
| | | : : : : : | | : | : | : | : | : |
| Db | 202 | STLYIPDKDSKKKHEHLKISHOGADALVLVAOSGEAQEWMLIKDYCSNCTGTVDSDGPL | | | | | | 261 |
| Oy | 275 | GSSYLQVGADVADLLXLGEMSHHDITDLDAASGINVI | | | | | | 308 |

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DB      262 SSSPVHKELEKLSERSSDGECAVENGITTV 295
RESULT 14
US-09-954-987B-6
; Sequence 6, Application US/09954987B
; Publication No. US20030104523A1
; GENERAL INFORMATION:
; APPLICANT: Stefan Bauer
; APPLICANT: Grayson B. Lipford
; APPLICANT: Hermann Wagner
; TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
; FILE REFERENCE: C1041/7016 (AMS)
; CURRENT APPLICATION NUMBER: US/09/954,987B
; CURRENT FILING DATE: 2001-09-17
; PRIOR APPLICATION NUMBER: US 60/233,035
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/263,657
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: US 60/291,726
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/300,210
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 230
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 1032
; TYPE: PRF
; ORGANISM: Homo sapiens
US-09-954-987B-6

Query Match      5.1%; Score 91; DB 11; Length 1032;
Best Local Similarity 24.8%; Pred. No. 5.7;
Matches 82; Conservative 42; Mismatches 118; Indels 86; Gaps 20;

QY      3 LKALSLN-----DFASLSPAESMDNVLVEPSPHTVNTLFTLN-----DLTEEV 50
DB      336 LKALSLNFEYOKRVSAFHLSLAPSGSLVALKELD-----MHGIFRSIDETLRPLARLP 391
QY      51 MEEVLQKADLLSYHPPIFRPMKRTIWNWTKERLIRALENRVGIYSPHTA-YDAAPOG 109
DB      392 MLQTLRLQNFNQALQIGIFRAFPGLRY-----VDSLDRNISGASELTATMGADG 443
QY      110 VNNWLAKG--LGACSTRPIHPSKAPRYPRGNNHRYEFNNYQODLDKVASAKGIDGYSV 167
DB      444 EKVMLOPGLAPAPVDTPSSEDFRPNCST-----LNFYLDLSR-----NNLVYQV 489
QY      168 TSFSARTGNEQTRINLCTOKAL-----MOVDFLSRNK-OLYOK--FEILSL 213
DB      490 EMF-AQLSHLOCLRLSHNCISQAVNSOFLPLTGLQYLD-LSRNKIDLYHNSFTLPLRL 547
QY      214 EKPLLLHT-----GMGRILCTLDESVSLSATMIDRIKRLKLSHRLALGVGTLESQYK 266
DB      548 EALDLSYNSQPRGMQGVG-----HNFSFVAHL-RTLRLHLSLAH-----NNHISQVS 592
QY      267 VVALCAG-----SGSSV-LOGVEADLYL 288
DB      593 -QQLCSTSLRALDFSGNALGHMMAEGDLYL 621

RESULT 15
US-10-272-502A-7
; Sequence 7, Application US/10272502A
; Publication No. US20030139364A1
; GENERAL INFORMATION:
; APPLICANT: Krieger, Arthur M.
; APPLICANT: Schetter, Christian
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Vollmer, Jorg
; APPLICANT: Bauer, Stefan
; APPLICANT: Jurk, Marion
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